1	Q.	Mr. Turner contends that Verizon MA should have used the average of
2		3.83 nodes per SONET ring when developing the fixed component of IOF
3		UNE rates. Is this contention correct?
4	A.	No. Consistent with TELRIC principles, Verizon MA created a forward
5		looking SONET ring architecture for its transport studies. Verizon
6		engineering experts determined that a six node design was the appropriate
7		model to best estimate the cost of this forward looking SONET architecture.
8		Given the anticipated maximum practical loading of 48 DS3 circuits on this
9		six node OC48 ring and the requirement of two ports per circuit (for a total
10		of 96 ports on each ring), Verizon MA determined that each node would
11		have 16 ports (representing 96 total ports divided by six nodes). Thus,
12		contrary to Mr. Turner's contention, Verizon MA correctly calculated the
13		total number of ports per SONET ring based on the forward-looking cost
14		model of a six node SONET ring.
15	Q.	Why did Verizon MA assume more nodes per SONET ring in its cost model
16		than what is typically found in today's network?
17	A.	The primary reason for assuming a larger number of nodes per ring is to
18		properly balance costs of ADM utilization and the cost of interconnecting
19		rings in a SONET network. Increasing the number of nodes on a SONET
20		ring in turn increases the probability that a DS3 circuit can be created
21		between two offices without having to use more than one ring. For
22		example, if a network uses only four-node rings, it would be necessary to

build many overlaying rings to connect offices in various four-node
patterns. In turn, many DS3s would have to travel across two or more four-
node rings to connect the particular points required by customers.
Because ring interconnection is a major cost in a SONET network, reducing
ring interconnection requirements generally helps reduce overall transport
costs.
Larger rings also reduce the network's sensitivity to demand uncertainty,
thus reducing the need for spare capacity and capacity "chasing" across
multiple rings to make connections. When designing and planning IOF
networks, it is extremely difficult to predict the precise point-to-point
demand for IOF circuits. Because demand variability increases as the
number of nodes on a ring decreases, the forecasting problem becomes
more difficult as the number of offices served by a single ring decreases.
Moreover, the engineers must examine each ring and determine whether
exhaust is likely in the next forecast period for that ring. If there were fewer
nodes and thus more rings, engineers would have to produce a much
greater number of correct forecasts, and this, combined with the less
predictable demand characteristics of smaller rings, likely would increase
greatly the chance of reaching exhaust capacity on any ring. This would
leave engineers with two choices: they would either have to provide greater
amounts of spare capacity in each ring across the network or risk having to

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route DS3 circuits around multiple rings to avoid congested rings. Either option produces economically inefficient results. The number of nodes per ring that Verizon MA could assume for a forwardlooking model is limited by practical constraints, however. Any ring larger than three nodes requires careful planning and administration to achieve efficient fill, because the available capacity on a ring is limited by the peak load between any two adjacent nodes on the ring. This fact has, in the past, limited the average ring size in the network. However, Verizon determined that, based on the enhanced capabilities of the latest generation of SONET technology and operations, the cost of a forwardlooking SONET transport network is best estimated by a model assuming six nodes per ring. Is it reasonable to change the number of nodes in the fixed component of the forward-looking model without changing any other parameters? Most certainly not. As explained below, the ring interconnection factor would have to be changed, as well. If this change were made, the result would be to increase, not decrease, IOF costs. The number of nodes per ring directly determines two other critical parameters that impact costs in the SONET ring model: the anticipated number of DS3s that can be loaded on the ring and the average number of ring interconnections that each DS3 circuit experiences. As explained previously, constructing rings with fewer nodes creates more uncertainty in forecasting capacity requirements. An

architecture that assumes four nodes per ring must have many more rings
to connect the same set of nodes as a six-node architecture. The
combination of fewer nodes per ring and more rings in the network
increases the chance that a particular circuit will have to utilize more than
one ring. Furthermore, as noted above, demand is far more variable and
unstable in a universe of three- or four-node rings than in a universe of six-
node rings. To avoid outages and other service problems due to
unexpected demand peaks, engineers try to provide increased spare
capacity so that they do not have to route circuits through multiple rings to
avoid a congested ring. Though Verizon has not performed a detailed
study of the fill in such a network, current experience suggests that an
average fill of 36 DS3s per ring is achieved when the average ring size is
between three and four nodes.
An average ring size of four nodes also would greatly increase the
probability of DS3 circuits needing to use several rings to complete the
connection between two nodes. The current Verizon study assumes that
an extremely low average of 0.15 ring interconnections are used by each
DS3. This assumption is very conservative even for a forward-looking local
SONET architecture for Massachusetts, as assumed in the Verizon study,
that employs a two-level ring architecture. In a two-level architecture,
offices in a local cluster are connected by a local ring. This local ring also
connects to a "hub" office that serves as an interconnection point for DS3

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circuits that need to travel between local clusters. The hub offices are interconnected by a second level of SONET rings. In this architecture, DS3 circuits between offices on a local cluster stay on the local ring and thus require no ring interconnection resources. Any DS3 circuit between clusters must route through the hub office and experience one or more ring interconnections: one if the cluster it routes to is served by the same hub, two or more if the DS3 must route through another hub. A conservative estimate is that "inter-cluster" DS3's will experience, on average, two interconnections. Therefore to achieve an average of 0.15 interconnections per DS3, 92.5% of all DS3s must stay within their local cluster.<sup>26/</sup> This is an extremely conservative estimate, even for an architecture with six nodes per ring. In an architecture with only four nodes per ring, the probability of connecting on a local ring would be very small, and the probability of requiring more than two interconnections would be large. Thus, if the four node per ring assumption were adopted as recommended by the CLEC Recurring Cost Panel, the ring interconnection factor would have to be increased to at least two. Increasing the number of interconnections in the IOF model would, in turn, increase IOF costs.

<sup>&</sup>lt;sup>26</sup> If inter-cluster circuits experience an average of two interconnections, and 7.5% of circuits were inter-cluster circuits, the average number of interconnections across all circuits would equal 2 X 0.75 = 0.15. The remaining 92.5% of circuits would stay within their local cluster.

1	Q.	Why did Verizon MA use the actual number of nodes per SONET ring and
2		not the forward-looking number of nodes per ring when calculating the
3		mileage-sensitive component of IOF UNE rates?
4	A.	Verizon MA used the actual number of nodes per ring to reflect the
5		conservative assumption that, in a forward-looking network, the actual
6		length of Verizon MA's SONET rings would not change or change much -
7		- even as additional nodes were added. Because Verizon MA does not
8		maintain data concerning the average total length of existing rings, it was
9		necessary to determine the average length of a ring using other data. The
10		most readily available source of data was the average distance between
11		nodes in the existing network, which could be multiplied by the average
12		number of nodes on deployed rings in the existing network to determine the
13		average length of a ring. It is in this calculation, estimating ring length for
14		purposes of determining the mileage-sensitive component of the IOF UNE
15		rates, that Verizon MA used the 3.83 node figure. In reality, as additional
16		nodes are added to existing rings to make entry and exit more efficient, the
17		length of rings would likely increase at least to some degree, because
18		additional nodes cannot always be added precisely on existing fiber routes.
19		Nevertheless, Verizon MA made the conservative assumption that, in a
20		forward-looking network, the average length of each SONET ring would not
21		increase from existing lengths.

1	Q.	What effect would it have on Verizon MA's IOF UNE rates if the number of
2		nodes per ring were increased to six in the mileage-sensitive calculations?
3	A.	Naturally, increasing the number of nodes per ring in the mileage-sensitive
4		calculations would increase the mileage-sensitive costs, unless the
5		average distance between nodes were reduced by a corresponding
6		percentage. By using the actual number of nodes per ring when
7		calculating the mileage-sensitive component, Verizon MA avoided
8		overstating mileage-sensitive costs.
9		B. Unbundled Digital Cross Connect System Port
10	Q.	What is a Digital Cross Connect System (DCS)?
11	A.	A DCS is a sophisticated, software driven network element that provides
12		advanced circuit aggregation and management functions within the
13		transport network. There are several types of DCS categorized by the
14		functionality of the core cross-connection matrix of the system. A
15		Narrowband DCS has a DS0 cross-connection capability, it cross-connects
16		DS0 channels from one DS1 system to another. A NDCS typically has DS1
17		physical ports on it. A Wideband DCS has a DS1 cross-connection
18		capability, it connects DS1 channels from one DS3 system to another. A
19		WDCS can have DS1 and DS3 ports. Because the WDCS can connect a
20		DS1 port to a DS1 channel within a DS3 port, the WDCS can provide a 1/3
21		multiplexing function. A Broadband DCS has a DS3 (or STS1 its SONET

counterpart) cross-connection capability, it connects one DS3 (STS1)

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channel from one higher capacity system to another. Currently available
BDCS have only DS3 (STS1) ports. DCS provide many operational and
management functions. Most basically, they provide an efficient
mechanism to interconnect with and among high capacity transport
systems. This includes both physically connecting channels and
aggregating channels to increase utilization. The systems also provide
fault isolation and testing capabilities. Because DCS are remotely
controlled by network management systems, they allow automated
connection and rearrangement of circuits in connection with both service
provisioning and restoration. NDCS and WDCS are usually deployed at a
large central office and primarily support circuits that terminate in that
office. BDCS are usually deployed at large transport hub offices and
primarily support interconnections among very high capacity backbone
transport systems, particularly SONET rings.
Is Mr. Turner correct in saying that DCS functionality can be separated
from dedicated transport?
No. The functionality provided by DCS in the forward looking Verizon MA
architecture for dedicated transport are inherent to the efficient provision of
the dedicated transport UNE. Mr. Turner bases his assertion on the totally
irrelevant fact that the ports of the DCS are cabled to other transport
elements through a physical connection frame. Every element and system
in an efficient network are connected in this manner. The issue is not

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whether the DCS hypothetically could be removed from the architecture. It
clearly could be. Rather, the issue is whether the dedicated transport
UNEs can be provided at the same efficient cost developed in the Verizon
study without the DCS functionality. This is not the case. As described
earlier, the DCS supplies numerous functions essential to the delivery of
dedicated transport channels across the network. Without the DCS these
functions would still have to be performed but through inefficient, manual
processes. The grooming and aggregation functions provided by the DCS
would be completely lost resulting in lower channel fill on the high capacity
transport facilities. The overall effect would be to increase the cost of the
dedicated UNE elements above those calculated in the model assuming
DCS.
But isn't Mr. Turner correct in concluding that since Verizon MA offers
access to DCS on a tariff basis the cost should not be included in the
dedicated transport study?
dedicated transport study?  No. Mr. Turner points to a particular Verizon service (Enterprise Network
No. Mr. Turner points to a particular Verizon service (Enterprise Network
No. Mr. Turner points to a particular Verizon service (Enterprise Network Reconfiguration Service (ENRS)) that utilizes a limited set of DCS
No. Mr. Turner points to a particular Verizon service (Enterprise Network Reconfiguration Service (ENRS)) that utilizes a limited set of DCS functionality to provide specific circuit rearrangement services. While this
No. Mr. Turner points to a particular Verizon service (Enterprise Network Reconfiguration Service (ENRS)) that utilizes a limited set of DCS functionality to provide specific circuit rearrangement services. While this service uses capacity on some of the same DCS elements that support the

1 is an inherent and essential component of efficient dedicated transport 2 UNEs. C. 3 **Transmission Equipment In-Place Factor** 4 Q. Mr. Turner, on page 14 asserts that Verizon MA's use of a 53.2% in-place 5 (EF&I) factor for transport transmission equipment is too high, and states 6 that in its experience the correct factor should be in the range of 30%. Is 7 this appropriate? 8 A. Not surprisingly, while claiming that his experience shows that the EF&I 9 factor should be in the 30% range, Mr. Turner provides no evidence or 10 even a frame of reference to support or give any context to this figure. For 11 example, it is not even clear whether, as is the case with their other EF&I 12 proposals (such as digital switching), AT&T is seeking to rely on figures 13 that are almost 10 years old. It is similarly not clear whether this figure 14 relates to a network in Massachusetts. In fact, parsing the sentence 15 carefully, it is not even clear that AT&T is claiming that an EF&I of 30% for 16 transport transmission equipment actually exists -- just that it should, in 17 AT&T's view. 18 In contrast, Verizon MA's EF&I factors are based on the company's actual 19 experience in 1998, using the discounted material prices at that time and 20 the actual installed equipment. Such data is certain to be more relevant 21 and more accurate than what AT&T proposes with respect to an 22 unidentified network, an unspecified era, and a nameless geographic

1		location. Indeed, Verizon MA's own EF&I experience is more reflective of
2		what Verizon MA should expect going forward than some other company's
3		alleged experience or preference.
4	Q.	Please comment on Mr. Turner contention that the 53.2% EF&I for
5		Massachusetts must be too high, because the one Verizon used in its New
6		York UNE proceeding was only 36.4%.
7	A.	The EF&I factor that Verizon used in its New York UNE proceeding was
8		based on equipment placed in 1997. As noted, the Massachusetts EF&I is
9		based on equipment placed in 1998. As explained in the Panel Direct and
10		in this testimony, when equipment prices decrease, as they may to do year
11		by year, the EF&I factor gets higher, to reflect the fact that the installation
12		costs (which do not decrease simply because the equipment price has
13		decreased) are likely to constitute a greater percentage of the overall
14		installed material investment. If AT&T wishes to use the lower EF&I factor
15		from the New York proceeding, they should be prepared, as well, to use the
16		architecture and price lists of the transport transmission equipment
17		installed in 1997. It would otherwise be entirely unreasonable to simply
18		substitute the lower 1997-based EF&I factor in these cost studies.
19		D. IEC POP Error
20	Q.	AT&T/WorldCom alleges that the IOF Transport cost model should be run
21		in the InterLATA option to develop costs associated with UNE IOF. (Turne
22		at 16). Do you agree?

1	A.	Yes. Verizon has re-ran the model using the IntraLATA option and the
2		study results are being filed with this testimony.
3 4		E. Verizon MA's Weighted Average Distance Between Wire Centers is Correct
5	Q.	AT&T/WorldCom claim that Verizon MA's overstated the weighted average
6		distance between its wire centers in developing the cost for Common
7		Transport. [Turner at 18.] Do you agree?
8	A.	Absolutely not. Mr. Turner criticizes the methodology Verizon MA used to
9		develop the average miles, yet he admits he has no knowledge on
10		precisely how Verizon MA developed its methodology.27 Had
11		AT&T/WorldCom requested the mileage calculation analysis during
12		discovery, Verizon MA would have provided the information, thereby
13		eliminating Mr. Turner's apparent post-discovery confusion. Had Mr.
14		Turner sought Verizon's analysis it is unlikely that he would be proposing a
15		totally arbitrary "12 miles" recommendation.
16	Q.	Can you explain how Verizon MA determined the average miles used to
17		develop the Common Transport MOU costs?
18	A.	Yes. Verizon MA developed the average miles by examining the actual
19		mileage of every local and toll circuit in Massachusetts.
20	VII.	DARK FIBER

<sup>&</sup>lt;sup>27</sup> Turner at 20.

1 2		A. Verizon MA's Dark Fiber Costs Produce Reasonable Cost Estimates And Do Not Result In Over-Recovery
3	Q.	Mr. Donovan claims that Verizon counts the fiber cable and supporting
4		structures supporting the cable twice, and therefore over-recovers its costs.
5		Is he correct?
6	A.	No. Mr. Donovan's assertions are based on a complete misunderstanding
7		of Verizon MA's cost studies, particularly the development and use of
8		utilization factors.
9	Q.	Please explain in more detail.
10	A.	First, Mr. Donovan assumes that the utilization factors used in Verizon
11		MA's loop studies are based only on "normal POTS and special services
12		demand." (Donovan Rebuttal at 46). This is not the case. Verizon has not
13		testified that it considers only normal POTS and special services demand
14		in its utilization factors. As discussed earlier, Verizon considers all known
15		and potential demand when sizing fiber cables. Thus, Mr. Donovan's
16		assumption is not correct.
17		Mr. Donovan then goes on to suggest on page 48 that Verizon applies the
18		utilization factor a second time, creating an additional over-recovery. In
19		this case Mr. Donovan simply does not understand Verizon MA's cost
20		workpapers. Verizon MA does indeed use the same utilization factor in
21		both the Loop studies and the Dark Fiber studies. However, the utilization
22		factor is only applied to the investment once. Mr. Donovan's assertion is
23		clearly wrong.

1	Q.	Should, as Mr. Donovan suggests, Verizon use a 100% utilization factor for
2		Dark Fiber?
3	A.	No. The issue of 100% fill in the feeder portion of the loop was addressed
4		in detail earlier in this surrebuttal testimony.
5	VIII.	HOUSE AND RISER
6		A. House and Riser Design
7	Q.	AT&T/WorldCom claims (Donovan at 32) that Verizon's House and Riser
8		Cable design is confusing, complex, and inefficient. They also claim that
9		Verizon's design violates past Department rulings. Are they correct?
0	A.	No. Mr. Donovan misrepresents Verizon MA's proposal in this proceeding.
11		The design proposed by Verizon MA is the same design approved by the
12		Department in earlier proceedings. Mr. Donovan is correct that the
13		Department did rule that Verizon may not force the CLEC to pay for a
14		backboard and terminal block. What the Department has ruled is that the
15		arrangement is optional, and that is exactly what Verizon MA is proposing
16		in this case. A review of the Massachusetts Wholesale Tariff (DTE MA No.
17		17, Part B, Section 12, Page 3) clearly shows that Verizon MA has
18		complied with the Department's ruling and our proposal here is fully

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compliant with the tariff.

#### B. House and Riser Fill Factors

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Are the witnesses testifying on behalf of AT&T and WorldCom correct in claiming that the appropriate forward-looking fill for house and riser cable is 64.1% and 75% as Dr. Ankum claims on behalf of the CLEC Coalition? No. House and riser cable is basically distribution cable in a building. The principles used to design house and riser are the same design considerations used when sizing distribution cables. Again, one of the primary reasons that an engineer uses ultimate demand requirements for sizing house and riser is cost. Significant costs and major disruptions causing customer dissatisfaction occur when reinforcing or rearranging house and riser cable. When a new building is being constructed, the engineer typically negotiates space in the building to terminate facilities and a path for the cable. Building owners must provide backboards, holes between floors, and conduit to allow for Verizon to place house and riser facilities. Once the building is complete and the walls are closed in, the cost to reinforce an undersized cable increases dramatically. The distances in a building are short. The cost of material pales in comparison to the cost of rework and reinforcement.

## C. AT&T/WorldCom's Proposed Horizontal House and Riser Study is Unrealistic and Should Not be Accepted

AT&T/WorldCom (Donovan Rebuttal at 37) claims that the primary difference between their cost study and Verizon MA's cost study is the material and labor costs associated with installing a terminal. Is there any validity to their claim?

1	A.	A I & I / World Com's proposed study is nothing more than a very weak
2		attempt to lower the rates for Horizontal House and Riser. Mr. Donovan
3		has presented very little evidence to support his study other than
4		references to FCC inputs in an unrelated proceeding. Furthermore, Mr.
5		Donovan's study is misleading and lacking in several important details that
6		would make AT&T/WorldCom's study comparable to Verizon MA's study.
7	Q.	Please explain your concerns regarding the lack of specific information in
8		Mr. Donovan's study.
9	A.	Mr. Donovan's study of terminal costs is based on five major work
10		activities:
11		Travel time between floors and placement of terminal block.
12		Place backboard.
13		Pair termination
14		Place Cable Stub
15		Splice Pairs
16		For the first activity, Mr. Donovan assumes five minutes of travel time
17		between floors and one minute to place the terminal block. Also included
18		is the investment in the terminal block itself. Even if we accept the FCC
19		labor inputs, a very important question needs to be answered. How did the
20		technician get to the building in order to perform the work? Apparently Mr.
21		Donovan assumes that Verizon has a technician stationed permanently at

1		each building since he did not include any travel time for the technician to
2		get there and return.
3		The second activity includes five minutes to place a backboard, but does
4		not include any cost for the backboard itself.
5		The fourth activity includes the labor associated with placing the cable
6		stub. As with the backboard discussed above, there appears to be no
7		material cost.
8		Also completely missing from Mr. Donovan's study are any costs
9		associated with the labor associated with engineering the job and
10		purchasing the material. Based on these shortcomings, Mr. Donovan's
11		study should not even be considered by the Department in this proceeding
12	Q.	Mr. Donovan also criticizes Verizon's use of a 150 foot average length for
13		horizontal cable. He recommends using a length of 91 feet based on a
14		sample survey conducted by AT&T. Please comment on this
15		recommendation.
16	A.	As with his other recommendations, Mr. Donovan has not provided
17		sufficient information to allow a complete analysis. For example, it is
18		unclear whether his sample represents only residential buildings, business
19		locations, or a mix of both. In response to a data request (VZ-ATT/WC 1-
20		34), Mr. Donovan only states that the survey was conducted by AT&T's
21		Broadband affiliate. It is even unclear whether the sampled locations are
22		all buildings that contain horizontal wiring owned by Verizon. The Verizon

1		study, on the other hand, is based on an estimate provide by Verizon
2		personnel with actual experience placing these types of cables. Clearly the
3		Verizon study is more reliable.
4	Q.	Do you have any other comments regarding AT&T/WorldCom's Horizontal
5		Cable study?
6	A.	Mr. Donovan discusses only the average length issue. What he fails to
7		mention is the fact that AT&T/WorldCom's proposed cable investment is
8		actually more than twice the amount proposed by Verizon on a per foot
9		basis. Thus it is reasonable to conclude that if Verizon were to charge on a
10		per foot basis rather than on an average length basis, Mr. Donovan would
11		not object to the higher rate.
12	IX.	ONGOING OSS COSTS
13	Q.	What is the purpose of this section of the recurring panel testimony?
14	A.	The purpose of this section is to address two adjustments made in Mr.
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		Baranowski's Rebuttal Testimony relating to the Company's Access to
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16 17	Q.	Baranowski's Rebuttal Testimony relating to the Company's Access to
	Q.	Baranowski's Rebuttal Testimony relating to the Company's Access to Operations Support Systems ("OSS") cost study.
17	Q. A.	Baranowski's Rebuttal Testimony relating to the Company's Access to Operations Support Systems ("OSS") cost study.  Do you agree with Mr. Baranowski's claim that estimated year 2002
17 18		Baranowski's Rebuttal Testimony relating to the Company's Access to Operations Support Systems ("OSS") cost study.  Do you agree with Mr. Baranowski's claim that estimated year 2002 computer investment costs should be reduced to 50% of the 1999 levels?
17 18 19		Baranowski's Rebuttal Testimony relating to the Company's Access to Operations Support Systems ("OSS") cost study.  Do you agree with Mr. Baranowski's claim that estimated year 2002 computer investment costs should be reduced to 50% of the 1999 levels?  No. Verizon incurred significant expenditures between 1996 and 1999 in

	incurred these costs in 1996 through 1999, the cost study reflects the 1999
	cost for this mainframe computer equipment, which is lower than the costs
	Verizon incurred in 1996-98. Mr. Baranowski's claim that Verizon MA
	should further reduce these costs should be rejected. Indeed, under Mr.
	Baranowski's theory, the investment associated with this would approach
	zero. This approach, of course, is clearly without merit.
	Verizon MA's OSS cost study appropriately reflects the forward-looking
	costs that the Company, as an efficient provider, actually expects to incur
	in providing the UNE. As a result, further adjustments to the Computer
	investments are not warranted.
Q.	Does Mr. Baranowski have any support for the 50% figure that he quotes
	for making his reduction?
A.	No. Although Mr. Baranowski's statements about the experiences from
	1996 to 1999 are true (that is the cost per MIPS has declined by 60% from
	\$25,000 to \$10,000 and the cost per GIG has declined by 80% from \$3,000
	to \$600), this trend has since significantly stabilized. Currently the cost per
	MIPS is \$9,800, which represents only a 2% decline from 1999 levels.
	Currently, the cost per GIG is \$420, which represents a 30% decline from
	the 1999 levels. Thus, Mr. Baranowski's extrapolations based on 1996 to
	1999 substantially overstate the current decline in the cost of computer
	hardware.

1	Q.	Mr. Baranowski also makes a 50% reduction in the access to OSS software
2		maintenance costs. He bases this on a prior Department determination
3		that the Company also benefits through improved operating efficiency from
4		improvements to OSS as a result of the work activity undertaken to provide
5		access to OSS. Is his reduction appropriate?
6	A.	No. The Company continues to disagree with that prior determination,
7		which was based on the pure speculation of AT&T witness Dr. Selwyn.
8		Verizon MA produced volumes of documentation and testimony that
9		demonstrates that Verizon MA's proposed OSS costs only reflect the work
10		associated with creating the interfaces and systems that permit the CLECs
11		to access Verizon MA's OSS. Verizon does not use or benefit from any of
12		these changes which were made exclusively to accommodate CLECs. Mr.
13		Baranowski's 50% reduction should be rejected.
14		Q. Does this conclude your testimony?
15	A.	Yes.

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## COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

D.T.E. 01-20 (Part A)

# SURREBUTTAL TESTIMONY OF DR. JOHN M. LACEY ON BEHALF OF VERIZON NEW ENGLAND INC. d/b/a VERIZON MASSACHUSETTS

**DECEMBER 17, 2001** 

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1 2	I.	INTRODUCTION
3	Q.	What is your name and address?
4	A.	My name is Dr. John M. Lacey. I am Professor of Accountancy and Ernst &
5		Young Research Fellow at California State University, Long Beach. My address
6		is 7 Poppy Trail, Rolling Hills, CA 90274.
7		
8	Q.	Please describe your educational background and academic and professional
9		experience.
10	A.	I earned my Ph.D. at UCLA, with a major in accounting information
11		systems and minors in economics and mathematics. I earned an MBA with a
12		major in quantitative business analysis and a Bachelor of Science in accounting at
13		the University of Southern California (USC). I previously taught at the Leventhal
14		School of Accounting at USC and at the Anderson Graduate School of
15		Management at UCLA. While at USC, I served on the Telecommunications
16		MBA Program faculty and taught in the Telecommunications Executive Program.
17		I am a CPA.
18		I have served on the Accounting Standards Executive Committee of the
19		American Institute of Certified Public Accountants (AICPA) and chaired its
20		Participating Mortgages Task Force and International Accounting Standards Task
21		Force. I also served as Chair of the AICPA Real Estate Committee and its
22		Accounting and Auditing Guide Task Force. I currently serve on the AICPA

Continuing Professional Education Committee, chair the California Society of